

IN THE CLAIMS:

Please cancel Claims 1-6 and 8-11 without prejudice or disclaimer of the subject matter recited therein.

Please amend Claim 7 and add new Claims 12 and 13.

Claims 1-6. (Cancelled).

7. (Currently Amended) A detection method for detecting a plurality of different substances contained in a specimen using a label, ~~characterized by~~ comprising sequentially the steps of:

~~introducing~~ flowing the specimen ~~into a channel~~ through a detecting element having a ~~plurality of different~~ first substance trapping ~~portion~~ portions for specifically trapping the plurality of different substances, respectively, to trap the substances in the substance trapping portions immobilizing a first substance trapping body for specifically trapping a first substance contained in the specimen, a second substance trapping portion immobilizing a second substance trapping body for specifically trapping a second substance contained in the specimen, the second substance being different from the first substance, and a channel;

flowing a solution containing the label through the first substance trapping portion immobilizing the first substance trapping body and the second substance trapping portion immobilizing the second substance trapping body;

flowing a solution for generating a signal from the label through the first substance trapping portion immobilizing the label such that a first layer of flow through the first substance trapping portion and a second layer of flow through the second substance trapping portion coexist and that the solution for generating a signal from the label forms the first layer of flow, to thereby acquire a signal from the first substance trapping portion; and

flowing a solution for generating a signal from the label through the second substance trapping portion immobilizing the label such that a first layer of flow through the first substance trapping portion and a second layer of flow through the second substance trapping portion coexist and that the solution for generating a signal from the label forms the second layer of flow, to thereby acquire a signal from the second substance trapping portion.

~~forming a plurality of layers of flow of a fluid in the channel; and
switching and passing the fluid forming the plurality of layers of flow,
to acquire independent information on each of the substances in the specimen through an action
between the fluid and the trapped substance.~~

Claims 8-11. (Cancelled).

12. (New) A detection method according to claim 7, wherein the label is an enzyme and the solution for generating a signal from the label is a solution containing a substrate for the enzyme.

13. (New) A detection method according to claim 7, wherein the label is pH-sensitive fluorescent dye and the solution for generating a signal from the label is a solution having a pH which changes a fluorescent characteristic of the pH-sensitive fluorescent dye.